

0208524975 LITTLE RIVER BELOW LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC

LOCATION.--Lat 36°06'47", long 78°51'34", Durham County, Hydrologic Unit 03020201, 125 ft downstream of the mouth of Little River tributary and 0.5 mi downstream of Little River dam.

DRAINAGE AREA.--98.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD--October 1995 to current year.

GAGE--Water-stage recorder. Elevation of gage is 270 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Daily discharges for the period Aug. 21 to Sep. 30 are poor due to the effects of beaver dams on the gage height-discharge relationship. Flow regulated by releases from the Little River Reservoir. Maximum discharge for period of record from extension of rating curve based on contracted-opening measurement of peak flow. Maximum gage height for period of record from floodmarks. Instantaneous low flow for the period of record not determined due to the effects of beaver dams on the gage height-discharge relationship. Maximum peak flow for the current year also occurred on Aug. 31.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e4.0	22	24	19	49	41	192	11	5.4	4.2	3.4	136
2	e3.4	21	15	21	31	35	240	34	3.7	4.2	8.8	40
3	e3.1	8.9	7.5	22	259	42	109	88	4.2	4.1	7.1	21
4	e3.1	11	13	20	397	42	80	83	4.8	4.0	3.6	10
5	e3.2	8.4	25	23	163	35	48	42	4.5	4.2	4.5	5.5
6	e3.6	6.0	29	25	122	34	35	23	4.4	4.0	5.0	8.0
7	3.3	12	26	22	394	33	32	15	4.6	3.9	3.3	19
8	3.4	13	18	17	220	32	28	8.6	4.9	3.9	3.2	76
9	3.4	8.2	16	21	113	17	30	8.7	4.6	3.9	3.1	321
10	3.5	6.5	53	19	77	15	27	8.4	3.7	4.3	3.1	113
11	4.6	7.4	916	16	60	13	22	8.3	4.1	4.7	5.0	46
12	8.7	8.5	301	17	63	16	41	8.6	4.4	4.6	6.9	22
13	15	13	127	19	83	11	121	8.5	3.7	4.5	11	6.0
14	7.6	3.3	493	16	74	12	167	8.7	3.5	3.9	17	5.6
15	19	2.1	498	15	60	14	148	8.6	3.5	3.9	8.5	6.3
16	17	2.5	203	10	64	32	91	8.6	5.6	3.9	4.8	5.5
17	18	3.7	157	11	68	43	50	8.6	4.3	3.9	3.9	28
18	8.8	3.9	185	18	61	48	39	8.7	3.7	4.8	3.5	132
19	6.1	12	122	19	62	35	38	8.6	3.6	3.8	3.4	117
20	3.3	57	80	15	57	24	28	8.6	3.5	8.6	3.3	50
21	4.0	54	52	12	51	24	20	8.3	3.7	3.4	12	20
22	6.5	30	43	12	44	17	20	8.1	3.9	5.4	5.4	8.1
23	3.3	18	37	10	34	12	15	14	5.0	4.4	2.9	3.9
24	2.9	14	43	14	28	12	16	9.1	4.5	3.7	2.9	4.6
25	3.0	11	39	14	25	11	10	8.5	4.0	3.3	2.8	3.7
26	3.1	8.2	36	26	24	11	11	8.1	6.1	3.3	2.6	3.6
27	4.1	7.5	33	21	29	17	18	8.1	4.1	7.0	2.9	4.5
28	6.7	16	26	18	35	16	11	8.1	4.0	4.9	3.2	6.9
29	63	28	29	12	39	17	9.4	8.1	4.4	4.0	3.2	4.5
30	94	37	25	18	---	12	9.4	9.9	4.0	4.1	445	4.8
31	46	---	27	41	---	16	---	8.3	---	3.3	822	---
TOTAL	378.7	454.1	3,698.5	563	2,786	739	1,705.8	506.1	128.4	134.1	1,417.3	1,232.5
MEAN	12.2	15.1	119	18.2	96.1	23.8	56.9	16.3	4.28	4.33	45.7	41.1
MAX	94	57	916	41	397	48	240	88	6.1	8.6	822	321
MIN	2.9	2.1	7.5	10	24	11	9.4	8.1	3.5	3.3	2.6	3.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	33.8	41.1	86.9	89.7	154	212	155	53.5	25.1	19.5	25.1	132
MAX (WY)	178 (2003)	149 (1996)	290 (2003)	333 (1998)	509 (1998)	705 (1998)	510 (2003)	260 (2003)	162 (2003)	146 (2003)	132 (2003)	538 (1996)
MIN (WY)	2.02 (1998)	2.03 (2001)	1.07 (2001)	1.15 (2001)	2.99 (2002)	4.46 (2002)	6.09 (2002)	5.69 (2002)	1.30 (2002)	1.16 (2002)	1.57 (2002)	0.95 (2002)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1996 - 2004
ANNUAL TOTAL	67,915.9	13,743.5	
ANNUAL MEAN	186	37.6	
HIGHEST ANNUAL MEAN			80.6
LOWEST ANNUAL MEAN			224
HIGHEST DAILY MEAN	4,370	Mar 20	3.39
LOWEST DAILY MEAN	2.1	Nov 15	2003
ANNUAL SEVEN-DAY MINIMUM	3.3	Oct 2	2002
MAXIMUM PEAK FLOW			10,300
MAXIMUM PEAK STAGE			Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.41
10 PERCENT EXCEEDS	405	78	Nov 22, 1998
50 PERCENT EXCEEDS	40	12	0.51
90 PERCENT EXCEEDS	7.6	3.5	Sep 7, 2002
			16,600*
			17.27
			Sep 6, 1996
			NOT DETERMINED*
			132
			7.2
			1.7

* See REMARKS.

e Estimated.

